CLAIMS

What is claimed is:

- 1 1. An apparatus comprising:
- 2 a metal deposition tool having annealing capability.
- 1 2. The apparatus of claim 1 further comprising an annealing chamber on said metal
- 2 deposition tool.
- 1 3. The apparatus of claim 2 wherein said metal deposition tool is an electroplating
- 2 tool.
- 1 4. The apparatus of claim 2 wherein said metal deposition tool is a chemical vapor
- 2 deposition (CVD) tool.
- 1 5. The apparatus of claim 1 wherein said metal deposition tool has a plurality of metal
- 2 deposition chambers, said metal deposition tool being modified to replace one of said
- 3 metal deposition chambers with an annealing chamber.
- 1 6. The apparatus of claim 5 wherein said metal deposition tool is an electroplating
- 2 tool and said metal deposition chamber is an electroplating chamber.

- 1 7. The apparatus of claim 5 wherein said metal deposition tool is a chemical vapor
- 2 deposition (CVD) tool and said metal deposition chamber is a chemical vapor deposition
- 3 (CVD) chamber.

- 1 8. The apparatus of claim 1 wherein said metal deposition tool includes at least one
- 2 metal deposition chamber and an annealing chamber on said metal deposition tool.
- 1 9. The apparatus of claim 8 wherein said metal deposition tool is an electroplating tool
- 2 and said metal deposition chamber is an electroplating chamber.
- 1 10. The apparatus of claim 8 wherein said metal deposition tool is a chemical vapor
- 2 deposition (CVD) tool and said metal deposition chamber is a chemical vapor deposition
- 3 (CVD) chamber.
- 1 11. The apparatus of claim 8 wherein said annealing chamber includes heat lamps.
- 1 12. The apparatus of claim 8 wherein said annealing chamber is a furnace.
- 1 13. The apparatus of claim 8 further comprising a robot, wherein said robot moves a
- 2 wafer from said metal deposition chamber to said annealing chamber.
- 1 14. An apparatus comprising:
- 2 an chemical mechanical polishing (CMP) tool having annealing capability.

- 1 15. The apparatus of claim 14 further comprising an annealing chamber on said CMP
- 2 tool.
- 1 16. The apparatus of claim 14 wherein said CMP tool has a plurality of CMP platforms,
- 2 said CMP tool being modified to replace one of said CMP platforms with an annealing
- 3 chamber.
- 1 17. The apparatus of claim 14 wherein said CMP tool includes at least one CMP
- 2 platform and an annealing chamber on said CMP tool.
- 1 18. The apparatus of claim 14 wherein said annealing chamber includes heat lamps.
- 1 19. The apparatus of claim 14 wherein said annealing chamber is a furnace.
- 1 20. The apparatus of claim 14 further comprising a robot, wherein said robot moves a
- 2 wafer from said annealing chamber to said CMP platform.
- 1 21. A method comprising:
- 2 depositing a metal onto a substrate in a metal deposition chamber of a metal
- 3 deposition tool;
- 4 moving said substrate from said metal deposition chamber directly to an annealing
- 5 chamber, wherein said annealing chamber is part of said metal deposition tool; and
- 6 heating said metal in said annealing chamber.

- 1 22. The method of claim 21 wherein said metal deposition tool is an electroplating tool
- 2 and said metal deposition chamber is an electroplating chamber.
- 1 23. The method of claim 21 wherein said metal deposition tool is a chemical vapor
- 2 deposition (CVD) tool and said metal deposition chamber is a chemical vapor deposition
- 3 (CVD) chamber.

- 1 24. The method of claim 21 wherein said heating is performed before chemical
- 2 mechanical polishing (CMP) of said substrate is performed.
- 1 25. A method comprising:
- depositing a metal onto a substrate in a metal deposition chamber of a metal
- 3 deposition tool;
- 4 moving said substrate from said metal deposition tool to an annealing chamber,
- 5 wherein said annealing chamber is part of a chemical mechanical polishing (CMP) tool;
- 6 heating said metal in said annealing chamber;
- 7 moving said substrate from said annealing chamber to a CMP platform on said
- 8 CMP tool; and
- 9 polishing said substrate including said metal after said annealing.
- 1 26. The method of claim 25 wherein said metal deposition tool is an electroplating tool
- 2 and said metal deposition chamber is an electroplating chamber.

- 1 27. The method of claim 25 wherein said metal deposition tool is a chemical vapor
- 2 deposition (CVD) tool and said metal deposition chamber is a chemical vapor deposition
- 3 (CVD) chamber.

- 1 28. A method comprising:
- depositing a metal onto a substrate in a metal deposition chamber of a metal
- 3 deposition tool;
- 4 moving said substrate from said metal deposition tool to a chemical mechanical
- 5 polishing (CMP) platform on a CMP tool;
- 6 polishing said substrate including said metal;
- 7 moving said substrate from said CMP platform to an annealing chamber, wherein
- 8 said annealing chamber is part of said CMP tool; and
- 9 heating said metal in said annealing chamber.
- 1 29. The method of claim 28 further comprising heating said metal in an annealing
- 2 chamber before polishing said substrate including said metal.
- 1 30. The method of claim 29 wherein said heating said metal in an annealing chamber
- 2 before polishing said substrate including said metal is performed in said annealing
- 3 chamber that is part of said CMP tool.